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09/01/00

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In Re: Patent Application of :  
Haig H. Kazazian, Jr. *et al.* :  
: :  
Appln. No.: **Not Yet Assigned** :  
: :  
Filed: September 1, 2000 :  
: :  
For: Compositions and Methods of Use of : Attorney Docket  
Mammalian Retrotransposons : No. **9596-23U3**

**INFORMATION DISCLOSURE STATEMENT**

It is requested that the enclosed reference(s) listed on the attached Information Disclosure Citation Form PTO-1449 be considered by the Patent Examiner in connection with the above-identified application and be made of record therein.

Independent consideration and acknowledgment of the enclosed reference(s) are respectfully requested.

Respectfully submitted,

**Haig H. Kazazian, Jr. *et al.***

SEPTEMBER 1, 2000  
(Date)

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Form PTO-1449 (Modified) (REV. 8-83)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTORNEY DOCKET NO.: 9596-23U3	APPLICATION NO. Not Yet Assigned
<b>INFORMATION DISCLOSURE CITATION</b>  (Form PTO-1449 Modified 5/95) (Use several sheets if necessary)		APPLICANT: Kazazian, Jr., et al.	
		FILING DATE: Herewith	GROUP ART UNIT:
<b>OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)</b>			
		Adams et al., 1980, <i>Nucl. Acids Res.</i> 8:6113-6128	
		Altschul et al., 1990, <i>J. Mol. Biol.</i> 215:403-410	
		Barzilay et al., 1995, <i>Nucl. Acids Res.</i> 23:1544-1550	
		Barzilay et al., 1995, <i>Nature Structural Biol.</i> 2:561-568	
		Boeke et al., 1985, <i>Cell</i> 40:491-500	
		Boeke et al., 1991, <i>Curr. Opin. Cell Biol.</i> 3:502-507	
		Braiterman, et al., 1994, <i>Gene</i> 139:19-26	
		Bucheton et al., 1984, <i>Cell</i> 38:153-163	
		Burkhoff et al., 1987, <i>Cell</i> 48:935-943	
		Burton et al., 1986, <i>J. Mol. Biol.</i> 187:291-304	
		Chee, 1996, <i>Science</i> 274:610-614	
		Conway et al., 1985, <i>Proc. Natl. Acad. Sci. USA</i> 82:3949-3953	
		Cooley et al., 1988, <i>Science</i> , 239:1121-1128	
		Curcio et al., 1991, <i>Proc. Natl. Acad. Sci. USA</i> 88:936-940	
		Demers et al., 1986, <i>Mol. Biol. Eval.</i> 3:179-190	
		Derr et al., 1991, <i>Cell</i> 67:355-364	
		Dombroski et al., 1993, <i>Proc. Natl. Acad. Sci. USA</i> 90:6513-6517	
		Dombroski et al., 1991, <i>Science</i> 254:1805-1808	
		Dombroski et al., 1994, <i>Mol. Cell Biol.</i> 14:4485-4492	
		Drolet et al., 1994, <i>J. Biol. Chem.</i> 269:2068-2074	
		Fanning et al., 1987, <i>Biochim. Biophys. Acta</i> 910:203-212	
EXAMINER		DATE CONSIDERED	
*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.			

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		Fanning <i>et al.</i> , 1987, <i>Nucl. Acids Res.</i> 15:2251-2260	
		Freeman <i>et al.</i> , 1994, <i>BioTechniques</i> 17:47-52	
		Garfinkel <i>et al.</i> , 1985, <i>Cell</i> 42: 507-517	
		Goff <i>et al.</i> , 1981, <i>J. Virol.</i> 38:239-248	
		Heidmann <i>et al.</i> , 1988, <i>Proc. Natl. Acad. Sci. USA</i> 85:2219-2223	
		Hohjoh <i>et al.</i> , 1996, <i>EMBO J.</i> 15:630-639	
		Hohjoh <i>et al.</i> , 1990, <i>Nucl. Acids Res.</i> 18:4099-4104	
		Holmes <i>et al.</i> , 1992, <i>J. Biol. Chem.</i> 267:19765-19768	
		Holmes <i>et al.</i> , 1994, "A new retrotransposable human L1 element from the LRE2 locus on chromosome 1q produces a chimaeric insertion", <i>Nature Genetics</i> 7:143-148	
		Holmes, 1994, <i>Thesis Dissertation</i> , Johns Hopkins University Press	
		Hutchison <i>et al.</i> , 1989, <i>LINES and related retrotransposons: long interspersed sequences in the eukaryotic genome in Mobile DNA eds.</i> , Berg <i>et al.</i> , pp.593-617, ASM Press, Washington, DC	
		Jensen <i>et al.</i> , 1991, <i>EMBO J.</i> 10:1927-1937	
		Johnson <i>et al.</i> 1988, <i>J. Biol. Chem.</i> 263:18017-18022	
		Kazazian <i>et al.</i> , 1988, <i>Nature</i> 332:164-166	
		Kinsey, 1990, <i>Genetics</i> 126:317-326.	
		Kitchin <i>et al.</i> , 1986, <i>J. Biol. Chem.</i> 261:11302-11309	
		Kolosha <i>et al.</i> , 1995, "Polymorphic Sequences Encoding the First Open Reading Frame Protein from LINE-1 Ribonucleoprotein Particles", <i>The Journal of Biological Chemistry</i> 270:2868-2873	
		Kunkel, <i>et al.</i> , 1991, <i>Methods in Enzymology</i> 204:125-139	
		Lehman, 1974, <i>Science</i> 186:790-797	
		Liebold <i>et al.</i> , 1990, <i>Proc. Natl. Acad. Sci. USA</i> 87:6990-6994	
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Form PTO-1449 (Modified)  
(REV. 8-83)U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICEATTORNEY DOCKET NO.:  
9596-2303APPLICATION NO.  
Not Yet Assigned

## INFORMATION DISCLOSURE CITATION

(Form PTO-1449 Modified 5/95)  
(Use several sheets if necessary)APPLICANT:  
Kazazian, Jr., et al.

FILING DATE: Herewith

GROUP ART UNIT:

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

Lilley, 1981, *Nucl. Acids Res.* 9:1271-1288Liu et al., 1987, *Proc. Natl. Acad. Sci. USA* 84:7024-7027Luan et al., 1995, *Mol. Cell. Biol.* 15:3882-3891Luan et al., 1993, *Cell* 72:595-605Maestre et al., 1995, *EMBO J.* 14:6333-6338Maniatis et al., 1982, *Molecular cloning: A Laboratory Manual*, Cold Spring Harbor, New York, pp. 1-545 - too voluminous to submitMartin, 1991, *Mol. Cell Biol.* 11:4804-4807Martin et al., 1995, *J. Mol. Biol.* 247:49-59Martin, 1995, "Characterization of a LINE-1 cDNA that originated from RNA present in ribonucleoprotein particles: implications for the structure of an active mouse LINE-1", *Gene* 153:261-266Martin, 1991, *Curr. Opin. Genet. Dev.* 1:505-508Mathias et al., 1991, *Science* 254:1808-1810Miki et al., 1992, *Cancer Research* 52:643-645Minakarni et al., 1992, *Nucl. Acids Res.* 12:3139-3145Mol et al., 1995, *Nature* 374:381-386Moran et al., 1996, *Cell* 87:917-927Morse et al., 1988, *Nature* 333:87-90Narita et al., 1993, *J. Clinical Invest.* 91:1862-1867Oefner et al., 1986, *J. Mol. Biol.* 192:605-632Pettijohn et al., 1980, *Proc. Natl. Acad. Sci. USA* 77:1331-1335

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<b>OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)</b>			
		Palmiter et al., 1986, <i>Ann. Rev. Genet.</i> 20:465-499	
		Qiagen, <i>Cat. No. 30210</i> , Chatsworth, CA	
		Rose et al., 1990, <i>Methods in Yeast Genetics: A Laboratory Course Manual</i> , Cold Spring Harbor, NY - too voluminous to submit	
		Sambrook et al., 1989, <i>Molecular Cloning: A Laboratory Manual</i> , Cold Spring Harbor, New York - too voluminous to submit	
	**	Sassaman, 1996, <i>Characterization of five novel human L1 elements capable of retrotransposition</i> , Doctoral Dissertation, Johns Hopkins University, Baltimore, MD	
		Scott et al., 1987, <i>Genomics</i> 1:113-125	
		Sinden et al., 1981, <i>Proc. Natl. Acad. Sci. USA</i> 78:224-228	
		Sinden et al., 1980, <i>Cell</i> 21:773-783	
		Skowronski et al., 1988, <i>Mol. Cell. Biol.</i> 8:1385-1397	
		Smit et al., 1996, <i>Current Opinion in Genetics and Development</i> - too voluminous to submit	
		Suck et al., 1988, <i>Nature</i> 332:464-468	
		Swergold, 1990, <i>Mol. Cell. Biol.</i> 10:6718-6729	
		Tchenio et al., 1993, <i>EMBO J.</i> 12:1487-1497	
		Temin et al., 1985, <i>Mol. Biol. Evol.</i> 2:455-468	
		Teng et al., 1996, <i>Nature</i> 383:641-644	
		Trelogan et al., 1995, "Tightly regulated, developmentally specific expression of the first open reading frame from LINE-1 during mouse embryogenesis", <i>Proc. Natl. Acad. Sci. USA</i> 92:1520-1524	
		Tsao et al., 1989, <i>Cell</i> 56:111-118	
		Usdin et al., 1989, <i>J. Biol. Chem.</i> 264:15681-15687	
		Ward et al., 1990, <i>Nucl. Acids Res.</i> 18:5319	
		Weiner et al., 1986, <i>Ann. Rev. Biochem.</i> 55:631-661	
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